

Division of Environmental Biology (DEB) Virtual Office Hour

Welcome to the DEB Virtual Office Hour. We will begin soon.

Please submit questions via the chat box available to you on WebEx. Please set notification to 'All Panelists'



Division of Environmental Biology (DEB) Virtual Office Hour – Welcome!

Program Directors in attendance today

- Matt Olson – Evolutionary Processes (matolson@nsf.gov)
- Chris Balakrishnan – Evolutionary Processes (cbalakri@nsf.gov)
- Ford Ballantyne – Ecosystem Sciences (fballant@nsf.gov)
- Liz Blood - Ecosystem Sciences (eblood@nsf.gov)
- Chris Schneider – Systematics and Biodiversity Sciences (cjschnei@nsf.gov)
- Betsy Von Holle – Population and Community Ecology (mvonholl@nsf.gov)

Facilitators – Christina Washington and Alina Dallmeier



DEB Virtual Office Hour

Questions:

- Submit your questions via the Q&A box on your screen and set to “All Panelists”
- For recently asked questions and future office hour topics, see the DEB blog (<https://debblog.nsfbio.com/>)
- For specific questions about your project, please contact a Program Director



DEB Virtual Office Hour

- DEB Office Hours: second Monday of each month, 1-2 pm EST

Upcoming Topics:

Jan 13: Bridging Ecology & Evolution (BEE) & Co-review

Feb 10: Rules of Life/Understanding the Rules of Life

Mar 9: RAPID/EAGER/Workshops

Apr 13: OPUS

May 11: CAREERs

June 8: BIO Postdoc Program



DEB Virtual Office Hour

Today's Topics:

- Recent solicitations and Dear Colleague Letters (DCLs)
- General Overview of DEB clusters
- Proposals and tracks
- Open question and answer period



Overview of DEB Core Clusters

Evolutionary Processes - Chris Balakrishnan

Ecosystem Sciences - Ford Ballantyne

Systematics and Biodiversity Sciences - Chris Schneider

Population and Community Ecology - Betsy Von Holle



The **Evolutionary Processes Cluster** supports **empirical** and **theoretical** research that makes inference about **micro-** and **macroevolutionary** dynamics and their consequences.

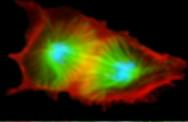
Scales: Molecules, Organisms, Populations, Species, Clades

Processes: Mutation, Selection, Drift, Genomic rearrangements, Recombination, Life-history changes, Divergence, Speciation, Hybridization, Genome-Phenome relationships, Epigenetic inheritance, Interspecific interactions, Gene flow, Geographic movements, Extinction



Ecosystem Science: Ecosystem structure and function across a diversity of spatial and temporal (including paleo) scales

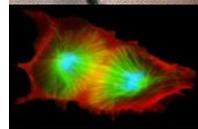
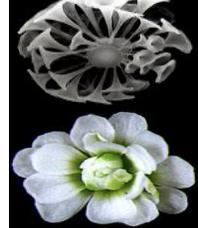
- 1) material and energy fluxes and transformations within and among ecosystems;
- 2) roles and relationships of ecosystem components in whole-system structure and function;
- 3) ecosystem dynamics, resilience, and trajectories of ecosystem change through time; and
- 4) linkages among ecosystems in space, time, and across spatial and temporal scales.
- 5) Supports research on natural, managed, and disturbed ecosystems, including those in terrestrial, freshwater, wetland, coastal (including salt marsh and mangrove), and human-dominated environments



Funding Opportunities in Systematics and Biodiversity Science (NSF 20-502)

SBS Cluster - Supports research that advances understanding of the diversity, systematics, and evolutionary history of extant or extinct organisms in natural systems.

- *Advancing Revisionary Taxonomy and Systematics (ARTS)* - Supports species-level taxonomic work and revisionary monographic work to develop predictive classifications and address the taxonomic impediment.
- *Poorly Sampled and Unknown Taxa (PurSUiT)* – Supports the discovery, identification, description, classification and cataloguing of the world's unknown biodiversity (extinct or extant) with priority given to dark areas of the Tree of Life.

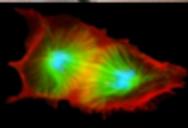




Population and Community Ecology: supports research that advances the conceptual or theoretical understanding of population ecology, species interactions and community dynamics



Topics include: population dynamics of individual species, demography, and fundamental ecological interactions affecting populations, communities, and their environments.



Themes include: population regulation; food-web structure and trophic dynamics; competition, predation, mutualism and parasitism; mechanisms of coexistence and the maintenance of species diversity; community assembly; paleoecology; landscape ecology; conservation and restoration biology; behavioral ecology; and macroecology.



PCE Encourages:



1) projects that integrate theoretical, modeling, and empirical approaches, or that promote synthesis across spatial and temporal scales.



2) proposals within the context of existing theory, consider alternate mechanisms, design critical tests to distinguish among mechanisms, and use contemporary approaches to develop new paradigms.



3) Inter- and multi-disciplinary proposals that cross traditional programmatic boundaries



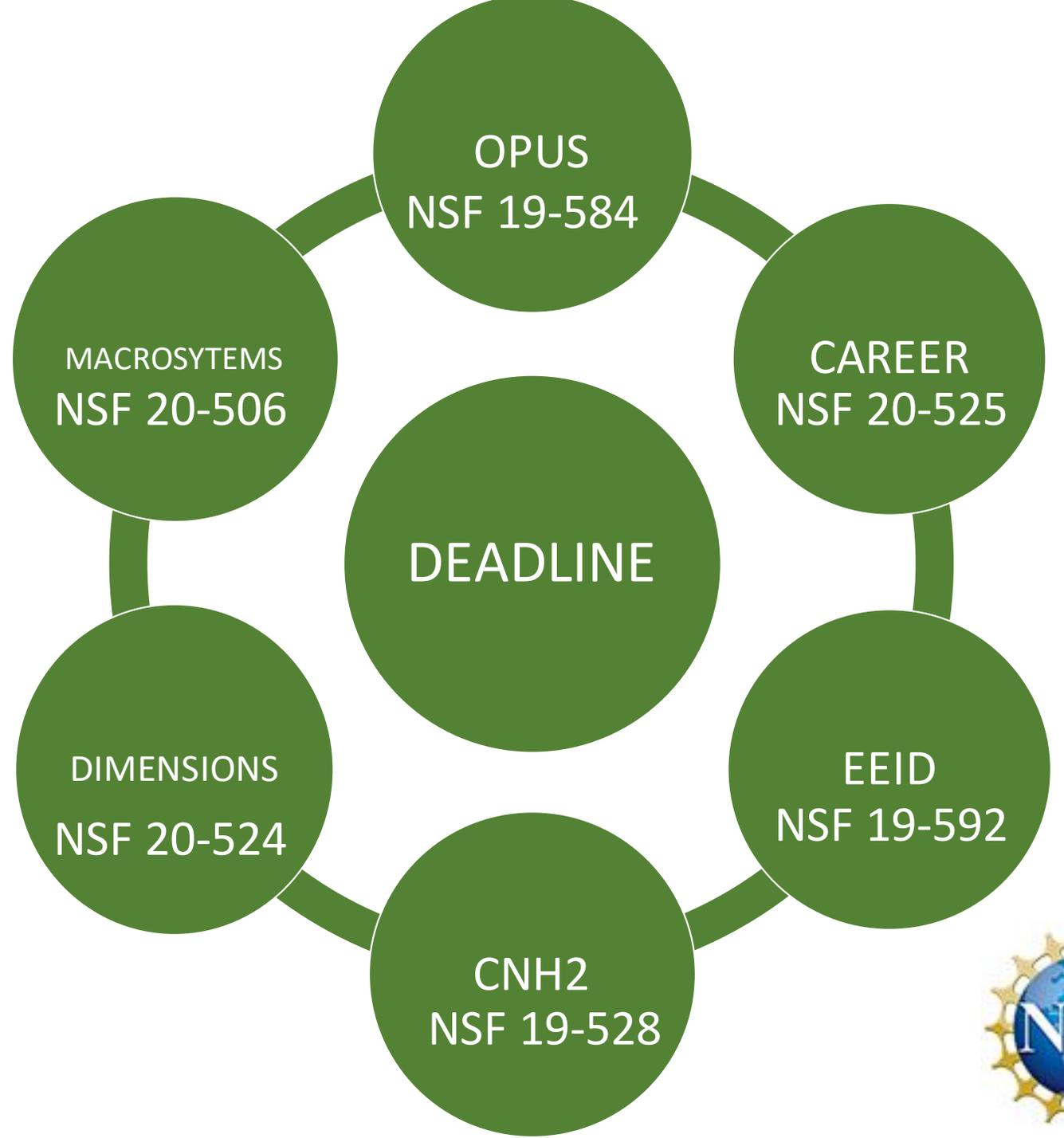
PCE Supports research in terrestrial, wetland, intertidal and freshwater habitats.



Proposal Types with No Deadline



Proposal Types with Deadline



Recent Solicitations and DCLs

Remember – Core DEB solicitation (20-502) has no deadlines and no submission limits.

- NSF 20-525 – Faculty Early Career Development Program (CAREER) – **Deadline July 27, 2020**
- NSF 20-524 – Dimensions of Biodiversity – **Deadline March 27, 2020**
- NSF 20-514 – Navigating the New Arctic – **Deadline Feb 11, 2020**, email NNA@nsf.gov with questions
- NSF 20-512 – Understanding the Rules of Life (URoL): Epigenetics, letter of intent due by **Dec. 20th, 2019**
- NSF 20-513 – URoL: Microbiome Theory and Mechanism, LOI due by **Jan. 17th, 2020**
- NSF 20-506 – Macrosystems Biology and NEON-Enabled Science (MSB_NES) deadline **Jan. 24, 2020**
- NSF 20-508 – Biology Integration Institutes (BII) – LOI Implementation proposals due **Dec. 20th, 2019**
- DCL: Research Opportunities Related to Coastlines and People (CoPe)

Find links to all recent solicitations and Dear Colleague Letters at the bottom of the DEB webpage (WebSearch: NSF DEB) under Funding Opportunities and Popular Links

